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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15/

Date: 23-03-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Cross Roads of Kodigehalli Village in Ward No.08 of Kodigehalli Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 20-03-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Kodigehalli Sub-Division. BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	97.20	95-100
26.50	---	-
22.40	74.00	60-80
11.20	41.20	40-60
4.75	32.00	25-40
2.36	25.40	15-30
0.600	19.60	8-22
0.075	4.30	0-8

A.E.E.

*As Furnished by Client

The Results relate only to the items tested

The test reports are Accepted

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ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬ್ರ.ಎಂ.ಪಿ
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Date: 23-03-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	**24.10%**	Not more than 30 %
2	Impact Value	----,,----	**24.60 %**	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM

*As Furnished by Client

The Results relate only to the items tested.

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DEPARTMENT OF CIVIL ENGINEERING

Date: 28-03-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	23.70%	Not more than 30 %
2	Impact Value	----„----	24.10 %	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----„----	0.30%	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----„----	97.50 %	Minimum retained coating 95.0 %

*As Furnished by Client

The Results relate only to the items tested.

DEPARTMENT OF CIVIL ENGG. BANGALORE UNIVERSITY

28/3/2015

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BUB/CTE/2014-15/ Date: 21-03-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28 days Compressive Strength).
{Project*: Improvements to cross road of Kodigehalli Villlage in Ward No.08 of Kodigehalli Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 20-03-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Kodigehalli Sub-Division, BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

Location* : Covering Slab

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-15	20-03-15	28	22500	495	22.00	**22.22**
	002	"	"	"	"	510	22.66	
	003	"	"	"	"	495	22.00	

*As Furnished by Client.

The Results relate only to the items tested

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BUB/CTE/2014-15

Date: 18-02-2015

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.
{Project*: Improvements to cross road of Kodigehalli Villlage in Ward No.08 of Kodigehalli Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 16-02-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Kodigehalli Sub-Division, BBMP, Bangalore.

TABLE – 1

SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm
02	Observed Wt/m Length **Kg/m**	**0.620**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**21.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**630.0**	545.0

*As furnished by Client.
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BUB/CTE/2014-15/ **Date: 19-03-2015**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28 days Compressive Strength).
{Project*: Improvements to cross road of Kodigehalli Villlage in Ward No.08 of Kodigehalli Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 18-03-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Kodigehalli Sub-Division, BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location* : Drain

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-02-15	18-03-15	28	22500	400	17.77	**17.92**
	002	"	"	"	"	410	18.22	
	003	"	"	"	"	400	17.77	

*As Furnished by Client.

The Results relate only to the items tested

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BUB/CTE/2014-15/

Date: 28-03-2015

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC).
{Project*: Improvements to Cross Roads of Kodigehalli Village in Ward No.08 of Kodigehalli Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 26-03-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Kodigehalli Sub-Division. BBMP, Bangalore.

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.04 %**
2. **Gradation Test :**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100**	100
9.5	**97.00**	90—100
4.75	**44.00**	35—51
2.36	**33.20**	24—39
1.18	**18.60**	15—30
0.3	**16.30**	09—19
0.075	**4.00**	03—08

* As furnished by Client.
The Results relate only to the items tested.

the test reports are accepted

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